OHIO RIVER PARTNERS, LLC
1331 Broad Avenue, Suite 100
Findlay, Ohio 45840

April 4, 2013

Ms. Melody Stewart
Division of Materials and Waste Management
Ohio Environmental Protection Agency
Southeast District Office
2195 Front Street
Logan, Ohio 43138

Re: RG Steel Wheeling, LLC Property – Approximately 10 acres, Martins Ferry, Ohio (See Drawing attached to this Letter as Exhibit A)

Dear Ms. Stewart:

Ohio River Partners, LLC, an Ohio limited liability company is negotiating with RG Steel Wheeling, LLC, a Delaware limited liability company concerning the purchase by ORP of the above referenced property currently owned by RG (the "RG Site"). RG is one of multiple debtors-in-possession in a jointly administered Chapter 11 Case pending in the U.S. Bankruptcy Court for the District of Delaware (Case No. 12-11661(KJC)).

ORP has commenced its due diligence concerning the RG Site, inclusive of its environmental due diligence. The environmental due diligence included soil and groundwater sampling as documented in the attached report by Civil & Environmental Consultants, Inc. (CEC) dated April 3, 2013.

As indicated in the report, dissolved cadmium was detected in four (4) of the seven (7) groundwater samples. Concentrations of cadmium ranged from 13.6 micrograms per liter to 89.8 micrograms per liter. These four (4) samples are above the Maximum Contaminant Level (MCL) standards for drinking water established by the U.S. EPA and also exceed the Ohio VAP Generic Unrestricted Potable Use Standard.

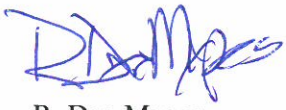
CEC's report also shows that the groundwater flow was generally to the west-southwest, *away from* the Martins Ferry Municipal Well Field which is located east/northeast of the RG Site.

ORP has shared the foregoing information with the Martins Ferry Municipal Water Authority.

Upon acquiring the RG Site, ORP intends to operate the RG Site for a limestone storage, off-loading, and transfer yard. None of ORP's intended uses involve or contain cadmium. ORP also understands and will comply with its use and reporting obligations prescribed by an Environmental Covenant on the RG Site.

Please call me at (419)424-5662 Ext. 1406 if Ohio EPA has concerns or requires additional information from us relating to the RG Site.

Sincerely,



R. Dan Mapes
Ohio River Partners. LLC.

April 4, 2013

Mr. Robert Mapes
Ohio River Partners, LLC
1331 Broad Avenue, Suite 100
Findlay, Ohio 45840

Dear Mr. Mapes:

Subject: Soil and Groundwater Sampling Results
Approximately 10-Acre Parcel
North End of Former RG Steel Property
1001 Main Street
Martins Ferry, Ohio
CEC Project 122-509

Pursuant to your request, Civil & Environmental Consultants, Inc. (CEC) performed soil and groundwater sampling as part of Ohio River Partners, LLC's (ORP's) due diligence prior to potential acquisition of an approximately 10-acre parcel of land at the north end of the former RG Steel Wheeling, LLC (RG Steel) plant in Martins Ferry, Ohio. CEC understands that ORP is negotiating with RG Steel concerning purchase of the above-referenced property currently owned by RG Steel (the "10-Acre Parcel"). RG Steel is one of multiple debtors-in-possession in a jointly administered Chapter 11 Case pending in the U.S. Bankruptcy Court for the District of Delaware (Case No. 12-11661(KJC)). The location of the 10-Acre Parcel is depicted on Figure 1.

The work was performed in general conformance with ASTM International (ASTM) E1903-11 *Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process*. The primary objectives of this work were to provide sufficient information regarding subsurface conditions to assist ORP in making informed business decisions concerning the 10-Acre Parcel, and to provide the level of knowledge necessary to satisfy one of the landowner liability protections under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601). As such, the work performed for this effort included performing a series of five (5) soil borings, collecting and analyzing soil samples,

converting one (1) soil boring to a monitoring well, and collecting groundwater samples from the newly-installed monitoring well and six (6) existing monitoring wells as described below. The existing monitoring wells were previously installed by others for purposes of investigating a 1990 release from petroleum underground storage tanks (USTs) in support of a No Further Action (NFA) letter from the Bureau of Underground Storage Tank Regulations (BUSTR). These tanks were located to the south of the 10-acre parcel.

The 10-Acre Parcel is comprised of an irregular-shaped parcel of vacant land located in an industrial portion on the northeast side of Martins Ferry, Ohio. A concrete slab associated with a demolished building, former railroad lines, and scrap concrete/rubble piles are present on the 10-Acre Parcel. The land use in the immediate vicinity of the property consists of an existing limestone yard to the north; a municipal well field to the east; building slabs to the south; and railroad lines to the west. The former RG Steel plant is located immediately south. The City of Martins Ferry Well Field is located approximately 150-feet to the east of the 10-Acre Parcel. The site layout is depicted on Figure 2.

1.0 SCOPE OF WORK

CEC performed the following field activities to complete this work:

- Advancement of five soil borings (SB-4 through SB-7 and MW-21) on the southwestern portion of the 10-Acre Parcel;
- Collection of soil cores continuously in all boring locations and field screening of the soil samples in the field for the presence of total volatile organic compounds (VOCs);
- Laboratory analysis of two soil samples from each soil boring for VOCs, eight Resource Conservation and Recovery Act (RCRA) metals, and Polycyclic Aromatic Hydrocarbons (PAHs) (MW-21 only);
- Installation, development, and sampling of one monitoring well (MW-21) on the southwestern portion of the 10-Acre Parcel; and,
- Collection of groundwater samples from monitoring wells MW-8S, MW-8D, MW-17, MW-19, and MW-20 MW-15 and MW-21 for laboratory analysis of VOCs and RCRA metals. The sample from MW-21 was also analyzed for PAHs.

All work was performed in accordance with industry-accepted practices and following generally accepted quality assurance/quality control (QA/QC) protocol. Samples were analyzed at Pace Analytical Services, Inc. (Pace) in Indianapolis, Indiana. All samples were shipped to the

laboratory in iced coolers under chain-of-custody protocol. Locations of the soil borings and monitoring wells are depicted on Figure 2.

2.0 RESULTS

2.1 Lithology

Lithology encountered during drilling generally consisted of a surficial cinder fill layer underlain by tan to dark brown sandy clay. Directly beneath this layer was 12 to 20 feet of inter-bedded tan, sandy clay, as well as fine-grained sand lenses that varied from moist to wet. At least 22 feet of tan to brown sand and gravel was identified directly beneath this layer. This sand and gravel layer was also moist to wet. Bedrock was not encountered during drilling. Copies of the borehole logs from this investigation are provided in Attachment A.

2.2 Depth to Groundwater and Field Parameters

Groundwater was generally encountered between 28 feet below ground surface to 38 feet bgs. Groundwater level data was collected from the monitoring wells using an electronic water level indicator referenced to the top of the inner PVC casing of the well. The presence of two aquifers was indicated in previous Tier 1 and Tier 2 investigations associated with the BUSTR NFA letter. Groundwater flow in the shallow zone was generally to the west and groundwater flow in the deeper alluvial aquifer was to the west-southwest.

Water level data from this work also indicated a westward component to groundwater flow. This flow direction varies from the anticipated flow, which would be toward the Ohio River. This variation could be due to seasonal variations in groundwater flow or influence due to surface water/groundwater interaction with the Ohio River. Further evaluation of groundwater flow was beyond the scope of this work. Water-level elevation data from this investigation are provided in Table 1. Groundwater flow direction is depicted on Figure 3.

Field parameters including temperature, pH, and conductivity were collected at the time of groundwater sampling. Groundwater temperature was within expected values, ranging from approximately 14.0 degrees Celcius (°C) to 15.9 °C. Conductivity values were also within anticipated values, ranging from approximately 580 to 1785 micromhos per centimeter (umhos/cm). pH values were slightly lower than neutral in four wells (MW-8S, MW-8D, MW-17 and MW-19), with values ranging from approximately 4.32 to 5.63. Copies of groundwater sampling logs are provided in Attachment B.

2.3 Laboratory Analyses

2.3.1 Soil

Soil samples from all of the soil borings except MW-21 were analyzed for VOCs and RCRA metals; soil samples from MW-21 were analyzed for VOCs, RCRA metals and PAHs. Two samples per soil boring were collected. The shallow sample was designated with an "A" (collected at 0 to 2 feet) and the deep sample was designated with a "B" (collected above the water table).

The only VOC detected in the soil samples was carbon disulfide, detected at 0.0146 milligrams per kilograms (mg/kg) in the shallow soil sample collected from MW-21. Carbon sulfide is a common laboratory artifact. Arsenic, barium, chromium and lead were detected in all of the soil samples. Cadmium was detected in three of the soil samples; selenium was detected in only one of the samples, and mercury was detected in two of the samples. Silver was not detected in any of the soil samples. Several PAH compounds were detected in the shallow soil sample collected from MW-21; however there were no PAHs detected in the deeper soil sample from MW-21. All of the results were well below applicable Ohio EPA Voluntary Action Program (Ohio VAP) Generic Direct-Contact Standards for Commercial/Industrial land use. Soil analytical results are summarized in Table 2. Copies of the laboratory analytical reports are provided in Attachment C.

2.3.2 Groundwater

Groundwater samples were collected from seven monitoring wells and analyzed for VOCs and dissolved RCRA metals. MW-21 was sampled for PAHs in addition to VOCs and dissolved RCRA metals. There were no detections of any VOCs in all seven monitoring wells and there were no detections of PAHs in MW-21. Dissolved cadmium was detected in four of the seven groundwater samples (MW-8S, MW-8D, MW-17 and MW-19) [NOTE: these are the four wells which exhibited slightly lower than neutral pH levels – See Section 2.2 above]. Concentrations ranged from 13.6 micrograms per liter (µg/L) to 89.8 µg/L. These four samples were above the Maximum Contaminant Level (MCL) standards for drinking water established by the U.S. EPA and also exceeded the Ohio VAP Generic Unrestricted Potable Use Standard (UPUS) of 5 µg/L. Groundwater analytical results are summarized in Table 3. Copies of the laboratory analytical reports are provided in Attachment C.

3.0 DISCUSSION

Based upon the information generated during this work, the following summarizes results of the investigation:

- Groundwater flow direction is away from the Martins Ferry Municipal Well Field.
- All of the laboratory results from the analyses of the soil samples were below the applicable Ohio VAP generic direct-contact standards.
- No VOCs were detected in any of the groundwater samples.
- PAHs were detected in the shallow soil sample collected and analyzed from MW-21; all of the results were below the applicable Ohio VAP generic direct-contact standards.
- Dissolved cadmium exceeded the Ohio VAP Generic UPUS of 5 µg/L in four of the seven groundwater samples. These four wells also showed pH values slightly lower than neutral.

Further evaluation of the source for the cadmium in the four groundwater samples was beyond the scope of this investigation; however, the following can be inferred based on the data:

- Soil analytical results do not indicate a potential on-site source;
- The westward groundwater flow could indicate a potential source to the east; and
- the lower than neutral pH values associated with the four wells identifying cadmium could influence the elevated concentration of the cadmium in these wells.

4.0 CLOSING

We appreciate the opportunity to provide environmental services to Ohio River Partners. Should you have any questions regarding the information in this report, please don't hesitate to contact us at 614-540-6633.

Very truly yours,

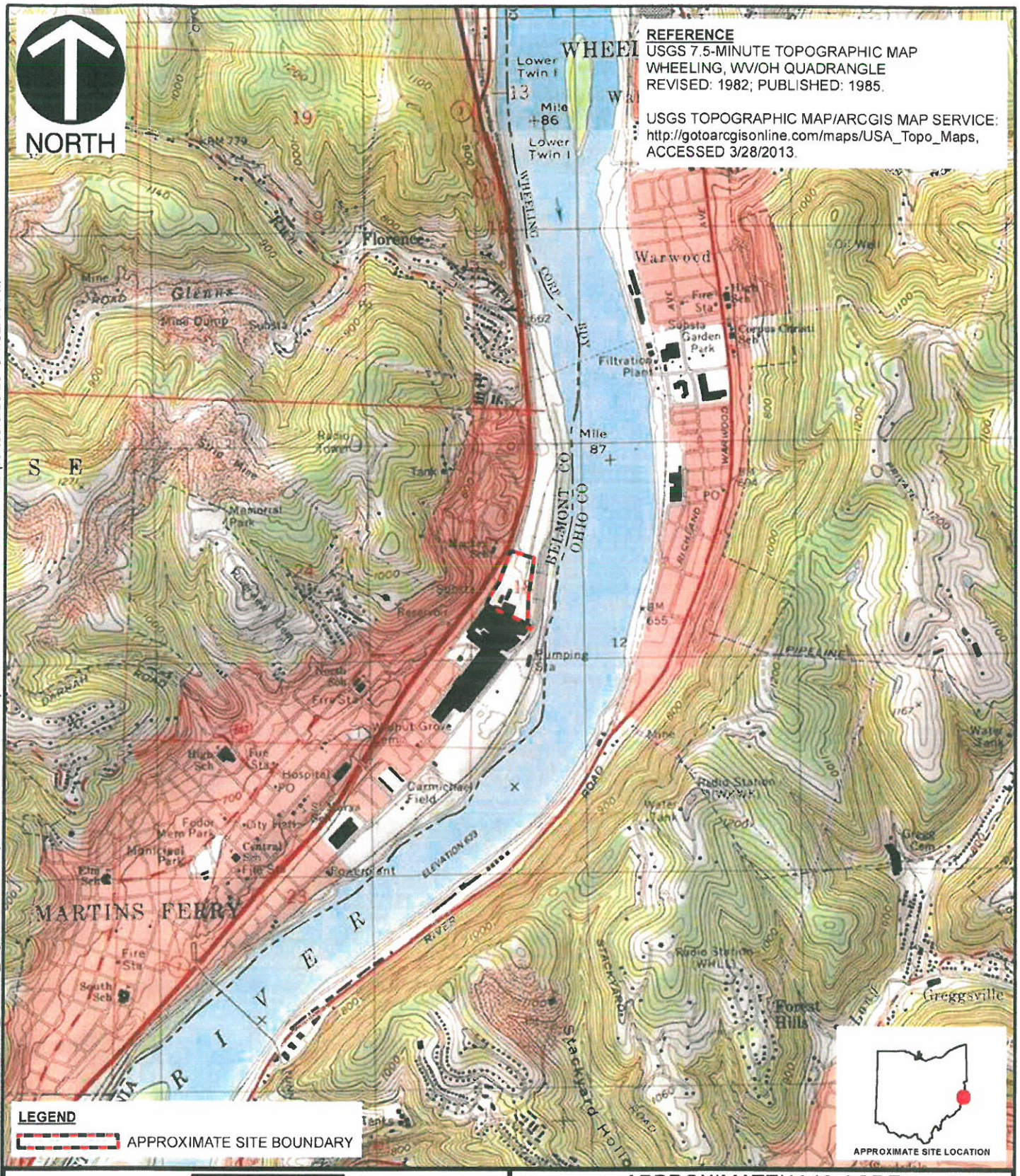
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Mary B. Novak
Project Scientist

Andrew G. McCorkle, CPG
Principal

Attachments

FIGURES



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APPROXIMATELY 10-ACRE FORMER RG STEEL COMPANY SITE 1001 MAIN STREET MARTIN'S FERRY, BELMONT COUNTY, OHIO

SITE LOCATION MAP

DRAWN BY:	APK/ECP	CHECKED BY:	RJW	APPROVED BY:		FIGURE NO:	1
DATE:	3/28/2013	MAP SCALE:	N.T.S.	PROJECT NO:	122-509.0003		

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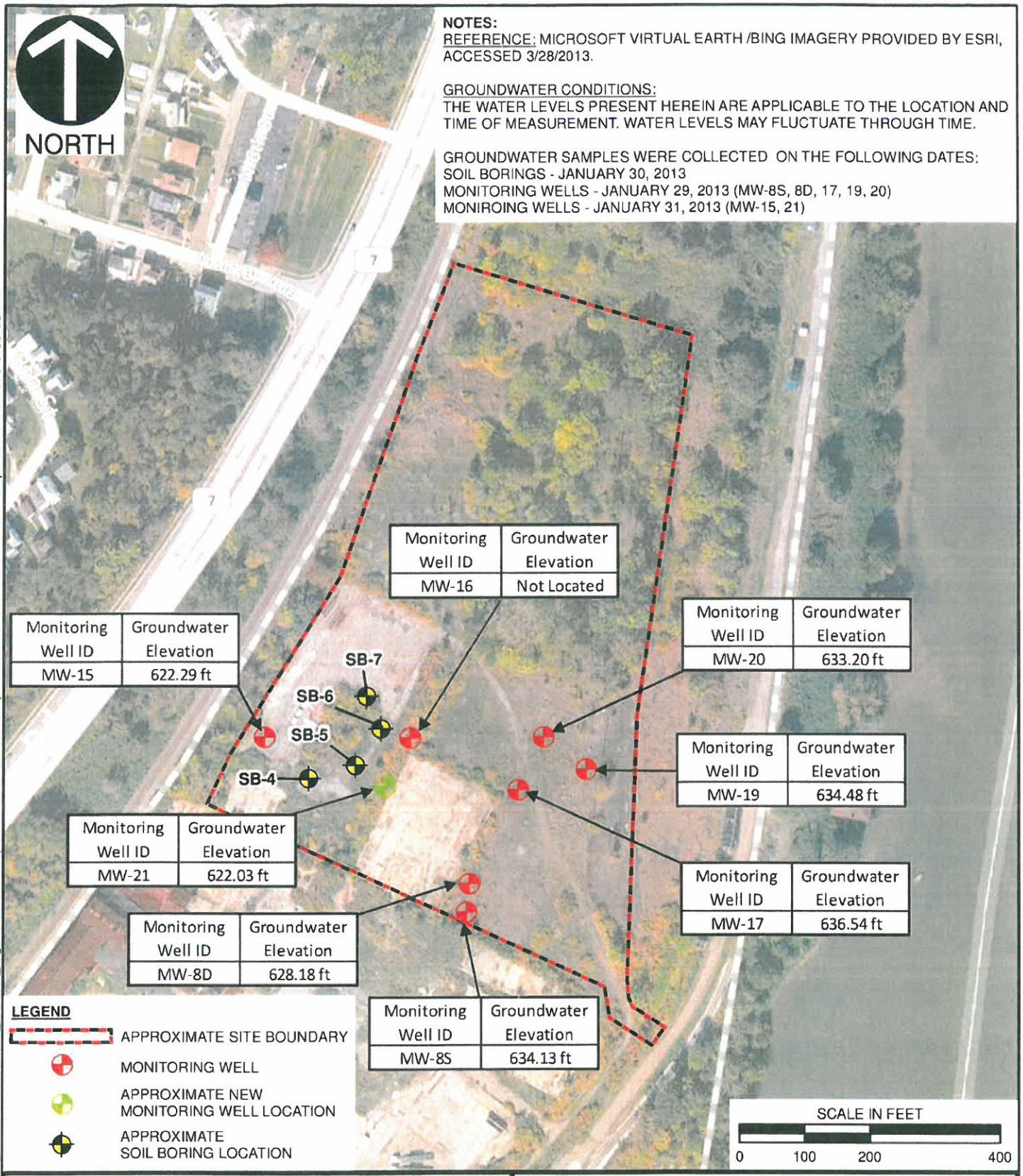

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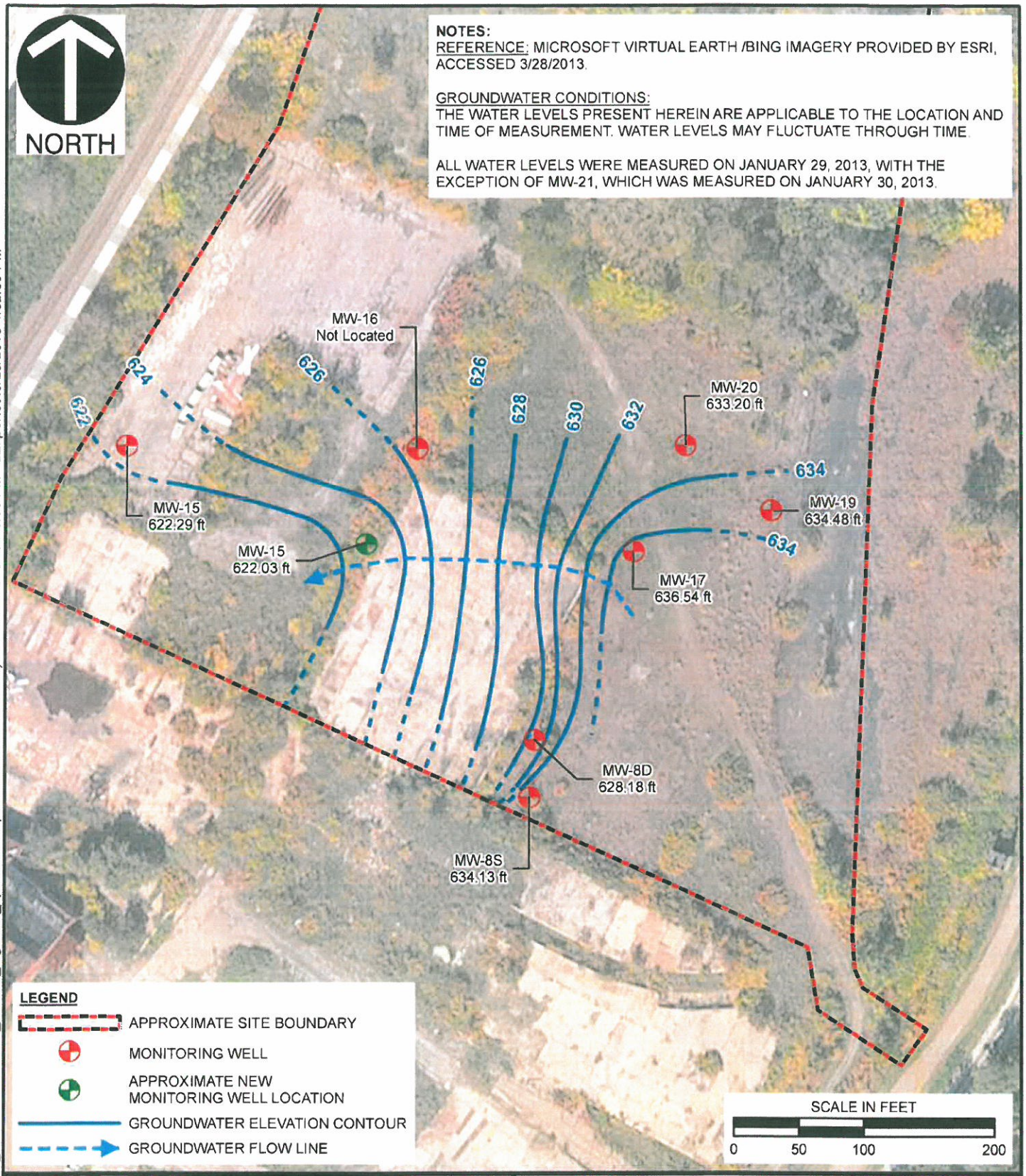
APPROXIMATELY 10-ACRE FORMER RG STEEL COMPANY SITE 1001 MAIN STREET MARTIN'S FERRY, BELMONT COUNTY, OHIO

SITE PLAN AND GROUNDWATER ELEVATIONS

DRAWN BY:	APK/ECP	CHECKED BY:	RJW	APPROVED BY:	*[signature]	FIGURE NO.:	2
DATE:	3/28/2013	MAP SCALE:	1 " = 200 '	PROJECT NO:	122-509.0003		

*Hand signature on file



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APPROXIMATELY 10-ACRE FORMER RG STEEL COMPANY SITE 1001 MAIN STREET MARTIN'S FERRY, BELMONT COUNTY, OHIO

GROUNDWATER ELEVATION MAP

DRAWN BY:	APK/ECP	CHECKED BY:	RJW	APPROVED BY:	*RJW	FIGURE NO.:	3
DATE:	3/28/2013	MAP SCALE:	1 " = 100 '	PROJECT NO:	122-509.0003		

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TABLES

Table 1
Ground Water Elevation Summary
Approximately 10-Acre Former RG Steel Property
CEC Project 122-509

Monitoring Well ID	Top of Casing Elevation (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
MW-8S	661.07	26.94	634.13
MW-8D	660.72	32.54	628.18
MW-15	659.57	37.28	622.29
MW-17	658.07	21.53	636.54
MW-19	660.31	25.83	634.48
MW-20	660.95	27.75	633.20
MW-21	662.17	40.14	622.03

Notes:

All measurements referenced to mean sea level.

Static water level measurements were collected on January 29, 2013 (MW-8S, MW-8D, MW-17, MW-19, and MW-20) and January 31, 2013 (MW-15 and MW-21).

Table 2
Summary of Soil Analytical Results
Approximately 10-Acre Former RG Steel Property
CEC Project 122-509

Parameter	Units	Soil Sample ID and Depth										VAP Cleanup Standards
		MW-21A (2')	MW-21B (35')	SB-4A (2')	SB-4B (28')	SB-5A (2')	SB-5B (30')	SB-6A (2')	SB-6B (29')	SB-7A (2')	SB-7B (25')	Direct Contact
Collection Date		1/30/13	1/30/13	1/30/13	1/30/13	1/30/13	1/30/13	1/30/13	1/30/13	1/30/13	1/30/13	Commercial/ Industrial Land Use
Volatile Organic Compounds												
Cabon Disulfide	mg/kg	0.0146	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,400
Polycyclic Aromatic Hydrocarbons												
Acenaphthene	mg/kg	ND	ND	--	--	--	--	--	--	--	--	56,000
Acenaphthylene	mg/kg	ND	ND	--	--	--	--	--	--	--	--	NS
Anthracene	mg/kg	0.126	ND	--	--	--	--	--	--	--	--	280,000
Benzo(a)anthracene	mg/kg	0.279	ND	--	--	--	--	--	--	--	--	76
Benzo(a)pyrene	mg/kg	0.178	ND	--	--	--	--	--	--	--	--	7.7
Benzo(b)fluoranthene	mg/kg	0.23	ND	--	--	--	--	--	--	--	--	77
Benzo(g,h,i)perylene	mg/kg	0.105	ND	--	--	--	--	--	--	--	--	NS
Benzo(k)fluoranthene	mg/kg	0.185	ND	--	--	--	--	--	--	--	--	770
Chrysene	mg/kg	0.371	ND	--	--	--	--	--	--	--	--	7600
Dibenz(a,h)anthracene	mg/kg	ND	ND	--	--	--	--	--	--	--	--	7.7
Fluoranthene	mg/kg	0.422	ND	--	--	--	--	--	--	--	--	37000
Fluorene	mg/kg	ND	ND	--	--	--	--	--	--	--	--	37000
Indeno(1,2,3-cd)pyrene	mg/kg	0.0857	ND	--	--	--	--	--	--	--	--	77
2-Methylnaphthalene	mg/kg	5.44	ND	--	--	--	--	--	--	--	--	NS
Naphthalene	mg/kg	3.75	ND	--	--	--	--	--	--	--	--	150
Phenanthrene	mg/kg	1.68	ND	--	--	--	--	--	--	--	--	NS
Pyrene	mg/kg	0.462	ND	--	--	--	--	--	--	--	--	2800
8 RCRA Metals												
Arsenic	mg/kg	39.5	9.6	11.7	17.1	24.7	5.6	8.5	9.8	8.1	8.8	82
Barium	mg/kg	170	51.7	243	68.9	129	64.2	97.4	81.5	148	119	370,000
Cadmium	mg/kg	9.9	ND	ND	ND	ND	4.8	ND	4.2	ND	ND	2,300
Chromium	mg/kg	48.8	9.0	14.0	9.6	14.8	5.3	9.5	8.1	10.2	8.3	7,900
Lead	mg/kg	868	8.3	61.4	9.7	139	5.7	10.2	9.5	28.4	8.3	1,800
Selenium	mg/kg	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND	15,000
Silver	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15,000
Mercury	mg/kg	0.42	ND	ND	ND	ND	ND	ND	ND	5.1	ND	290

Notes:
Values indicated in **BOLD** typeface exceed one or more action levels
NS = No Standard established
-- = Not analyzed for parameter

Table 3
Summary of Groundwater Analytical Results
Approximately 10-Acre Former RG Steel Property
CEC Project 122-509

Parameter	Sample ID							Drinking Water Standards[1]
	MW-8S	MW-8D	MW-15	MW-17	MW-19	MW-20	MW-21	
Collection Date	1/29/2013	1/29/2013	1/31/2013	1/29/2013	1/29/2013	1/29/2013	1/31/2013	
Volatile Organic Compounds (VOCs)								
ND								
Polycyclic Aromatic Hydrocarbons (PAH)								
ND								
Dissolved 8 RCRA Metals								
Aresnic, Dissolved	ND	ND	ND	ND	ND	ND	ND	10[1]
Barium, Dissolved	ND	ND	ND	ND	ND	ND	ND	2000[1]
Cadmium, Dissolved	**13.6**	**36.0**	ND	**21.4**	**89.8**	ND	ND	5[1]
Chromium, Dissolved	ND	ND	ND	ND	ND	ND	ND	100*[1]
Lead, Dissolved	ND	ND	ND	ND	ND	ND	ND	15[1]
Selenium, Dissolved	10.2	ND	ND	ND	ND	ND	ND	50[1]
Silver, Dissolved	ND	ND	ND	ND	ND	ND	ND	79[2]
Mercury, Dissolved	ND	ND	ND	ND	ND	ND	ND	2[1]

Notes:

Values indicated in **BOLD** typeface exceed one or more action levels

[1] = Ohio VAP Generic Unrestricted Potable Use Standard

[2] = Ohio VAP Risk-Derived Generic Unrestricted Potable Use Standard

ND = Not detected above laboratory detection limit

* Standard for Total Chromium

ATTACHMENT A

BOREHOLE LOGS

Civil & Environmental Consultants, Inc. Pittsburgh Cincinnati Columbus Nashville Indianapolis 1-800-365-2324	Project Name: National Guard Steele	Boring/ Well ID: mw-21 Project No: 122-509 Page 1 of 2
Date Started: 1/30/13 Completed: 1/30/13	Well Installed: [X] Yes [ ] No	
Drilling Company: Enviro Core	Well Head Stickup: 2.0 ft. [X] Above [ ] Below	
Driller: Craig / Wes	Outer Casing:	
CEC Representative D. Follett	Development Method:	
Drilling Method: Geoprobe / 8.25" HSA	Results:	
Bore Hole: 8.25" Core Size:	Yield:	
Backfill: Natural Backfill / Bentonite Chips / Sand	Surface Protection:	
Air Monitoring Instrument: Mini RAE 3000	Water Levels:	
Casing Elevation:	TOC = Top of Inner Casing GS = Ground Surface	Open Bore Hole @ Completion: 38.2 Open Bore Hole @ 1/30/13 Hrs: 1100 Well @ Completion: 40.75 TOC Well on 1/30/13: 1715
Ground Elevation:		
Key#:		
Comments/Problems: Chips 1-33' Screen 35-45' Sand 33'-34' Natural backfill 34'-42' Sand 42'-45' TD=47.16'	Waste Handling (Cuttings, Drilling Fluids, Development Water):	

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
1	1.3'		0.0	2	0-4' Gray to dark gray Cinders & fill, moist, unconsolidated.			
				4	collected mw-21A at 2.0'			
2	3.0'		0.0	6	4.0-8.0' tan sandy clay, moist, soft			
				8				chips
3	2.9		0.0	10	8'-12' grades to fine grained Sand, moist. Interbedded tan sandy clay and fine grained Sand, dense			
				12				
4	2.35'		0.0	14	12-16 SAA			
				16				
5	2.3'		0.0	18	16-20 SAA			

Contact Types: Abrupt ——— Gradational - - - - - - - - -
Irregular or Angular ~~~~ Estimated .....

Boring/Well ID: mw-21
Project No: 122-509

Civil & Environmental Consultants, Inc.

Boring/Well ID: MW-2
Project No: 122-509

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
6	2.2		0.0	22	20-23.6 SAA 23.6-24' Tan to dark tan Sand & gravel moist, gravel subrounded, sand fine-grained, poorly sorted.			
7	2.1		0.0	24 26	24-28 SAA At 25-25.5 Clay & Gravel seam, wet			
8	1.65		0.0	28 30	28-32 SAA collected MW-21 B at 35'			(Lin)
9	2.7		0.0	32 34	32-33 tan to brown, Sand, moist, medium grained, well sorted medium dense.			Sand
10	1.8		0.0	36 38	33-36' tan to dark tan Sand & gravel, 36-40 SAA moist, gravel subrounded, sand fine grained, poorly sorted			natural backfill
11	2.3		0.3	40 42	41.3-44 Gray Sand & gravel, wet poorly sorted. 40-41.3 SAA			
12	0.5		0.0	44	44-45 SAA BOB @ 45.0'			S.S

Notes:

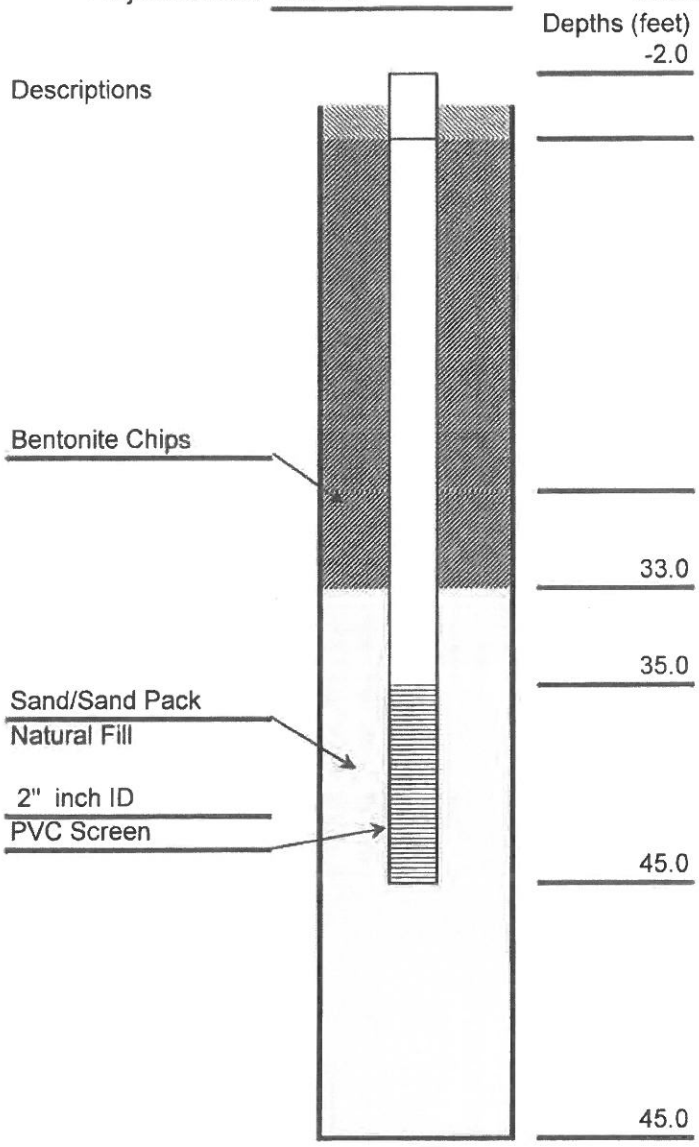
Boring/Well ID: MW-21
Project No: 122-509

Project Name National Lime & Stone

Well ID MW-21

Project Number 122-509

Installation Date 1/30/2013



Notes:

CEC **Civil & Environmental Consultants, Inc.** Pittsburgh Cincinnati Columbus Nashville Indianapolis 1-800-365-2324	Project Name: National Lime & Stone	Boring/ Well ID: SB-4 Project No: 122-509 Page 1 of 2
Date Started: 1/30/13 Completed: 1/30/13	Well Installed: ☐ Yes ☒ No	
Drilling Company: Enviro Core	Well Head Stickup: ft. ☐ Above ☐ Below	
Driller: Craig	Outer Casing:	
CEC Representative D. Tollett	Development Method:	
Drilling Method: Geoprobe	Results:	
Bore Hole: 2" Core Size:	Yield:	
Backfill: Bentonite Chips	Surface Protection:	
Air Monitoring Instrument: mini RAE 3000	Water Levels:	
Casing Elevation:	TOC = Top of Inner Casing GS = Ground Surface	Open Bore Hole @ Completion: Dry Open Bore Hole @ 1/30/13 Hrs: 1130 Well @ Completion: — Well on —/—/— : —
Ground Elevation:		
Key#:		
Comments/Problems:	Waste Handling (Cuttings, Drilling Fluids, Development Water):	

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
1	2.6		0.0	2	0-1.0 Gray Cinders & Fill, moist loose.			
				4	1.0-4' tan to dark brown Sandy Clay slight plastic, moist, soft			
2	3.3		0.0	6	4.0'-8' tan to dark brown sandy clay w/ fine grained interbedded Sand lenses, trace organics, moist			
3	3.0		0.0	8	8-12 SAA			
				10	SB-4A collected at 2.0'			
4	2.4		0.0	12	12-16 SAA			
				14				
5	2.25		0.0	16	16-20 SAA			
				18				

Contact Types: Abrupt ——— Gradational - - - - - - - -
Irregular or Angular ~~~~ Estimated .....

Boring/Well ID: SB-4
Project No: 122-509

Civil & Environmental Consultants, Inc.	Boring/Well ID: SB-4 Project No: 127-509	Page 2 of 7

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
			0.0		20'-22.8' tan fine grained Sand, moist, loose, well sorted			
6	2.3			22				
					22.8'-24" tan to gray Sand & gravel, loose, poorly sorted, moist.			
			0.0	24				
7	0.4			26	24-28 SAA wet at 28'			
					28-30 SAA			
			0.0	28	SB-4B collected at 28'			
8	0.9			30	BGBG 30'			

Notes:

Boring/Well ID: SB-4
Project No: 127-509

Civil & Environmental Consultants, Inc. Pittsburgh Cincinnati Columbus Nashville Indianapolis 1-800-365-2324		Project Name: Natural Lake Stone	Boring/ Well ID: SB-5 Project No: 122-509 Page 1 of 2
Date Started: 1/30/13 Completed: 1/30/13		Well Installed: ☐ Yes ☒ No	
Drilling Company: EnviroCore		Well Head Stickup: ft. ☐ Above ☐ Below	
Driller: Craig		Outer Casing:	
CEC Representative D. Pollett		Development Method:	
Drilling Method: Geoprobe		Results:	
Bore Hole: 2"	Core Size:	Yield:	
Backfill: Bentonite Chips		Surface Protection:	
Air Monitoring Instrument: MiniRAE 3000		Water Levels:	
Casing Elevation:		TOC = Top of Inner Casing GS = Ground Surface	Open Bore Hole @ Completion: 1.50' Open Bore Hole @ 1/30/13 Hrs: 1250 Well @ Completion: — Well on — / — / — : —
Ground Elevation:			
Key#:			
Comments/Problems:		Waste Handling (Cuttings, Drilling Fluids, Development Water):	

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
1	2.2		0.0	2	0-0.7 Gray Cinders moist, loose SB-5A taken at 2.0'			
				4	0.7-4.0' Tan to brown Sandy Clay, moist, slightly plastic. 4.0-5' SAA			
2	3.2		0.0	6	5.0-8' Tan to brown sandy clay w/ interbedded sand, fine grained, moist, clumpy bedding, trace organics, sand lens well sorted, wet			
				8				
3	2.3		0.0	10	8-12 SAA			
				12				
4	2.2		0.0	14	12-16 SAA			
				16				
5	2.3		0.0	16	16-20 SAA			
				18				

Contact Types: Abrupt ——— Gradational - - - - - - - - -
Irregular or Angular ~~~~~ Estimated .....

Boring/Well ID: SB-5
Project No: 122-509

Civil & Environmental Consultants, Inc.	Boring/Well ID: SB-5 Project No: 122-509	Page 2 of 2

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
			0.0		20-24 SAA			
6	1.4			22				
			0.0	24	24.0'-28' tan to gray silt & gravel, moist, loose, poorly sorted,			
7	1.6			26	28-30' SAA gravel subrounded.			
			0.0	28	SB-5B taken at 30.0'			
8	1.1			30	BOB @ 30.0'			

Notes:

Boring/Well ID: SB-5
Project No: 122-509

Civil & Environmental Consultants, Inc. Pittsburgh Cincinnati Columbus Nashville Indianapolis 1-800-365-2324	Project Name: National Lime & Stone	Boring/ Well ID: SB-6 Project No: 122-509 Page 1 of 2

Date Started: 1/30/13 Completed: 1/30/13	Well Installed: ☐ Yes ☒ No
Drilling Company: Enviro Core	Well Head Stickup: ft. ☐ Above ☐ Below
Driller: Craig	Outer Casing:
CEC Representative D. Follett	Development Method:
Drilling Method: Geoprobe	Results:
Bore Hole: 2" Core Size:	Yield:
Backfill: Bentonite Chips	Surface Protection:
Air Monitoring Instrument: MiniRAE 3000	Water Levels:
Casing Elevation:	Open Bore Hole @ Completion: Dry
Ground Elevation:	Open Bore Hole @ 1/30/13 Hrs: 1155
Key#:	Well @ Completion: —
TOC = Top of Inner Casing GS = Ground Surface	Well on — / — / — : —
Comments/Problems:	Waste Handling (Cuttings, Drilling Fluids, Development Water):

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
1	1.4		0.0	2	0-1' Gray Cinders, loose, moist collected SB-6A at 7.0'			
				4	1.0-4' tan to brown Clay, Plastic, moist			
2	3.3		0.0	6	4.0-8' tan sandy clay, moist, plastic			
					8'-9' SAA			
				8	9.0-12' tan to brown sandy clay interbeds, sand fine-grained wet,			
3	2.3		0.0	10	8-12 SAA			
				12	12-16 SAA			
4	2.3		0.0	14				
				16	16-18 SAA			
5	2.3		0.0	18				

Contact Types: Abrupt ——— Gradational - - - - - - - -
Irregular or Angular ~~~~ Estimated .....

Boring/Well ID: SB-6
Project No: 122-509

Civil & Environmental Consultants, Inc.

Boring/Well ID: SB-6
Project No: 122-509.

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
6	2.3		0.0	22	20 - 21.3 tan to brown Sand, fine grained, loose, moist, well sorted, trace organics			
				24	21.3'-24' tan to brown Sand gravel, poorly sorted, wet			
7	1.5		0.0	26	24-28 trace coal. SAA			
				28				
8	1.0		0.0	30	29-30 SAA collected SB-6B at 29' Boise 30'			

Notes:

Boring/Well ID: SB-6
Project No: 122-509

Civil & Environmental Consultants, Inc. Pittsburgh Cincinnati Columbus Nashville Indianapolis 1-800-365-2324	Project Name: National Cine & Store	Boring/ Well ID: SB-7 Project No: 122-509 Page 1 of 2

Date Started: 1/30/13 Completed: 1/30/13	Well Installed: ☐ Yes ☒ No
Drilling Company: EnviroCore	Well Head Stickup: ft. ☐ Above ☐ Below
Driller: C Borg.	Outer Casing:
CEC Representative D. Fitch	Development Method:
Drilling Method: Geoprobe	Results:
Bore Hole: 2" Core Size:	Yield:
Backfill: Bentonite Chips	Surface Protection:
Air Monitoring Instrument: n-hi, RAE 3000	Water Levels:
Casing Elevation:	Open Bore Hole @ Completion: Dry
Ground Elevation:	Open Bore Hole @ 1/30/13 Hrs: 12.5
Key#:	Well @ Completion:
TOC = Top of Inner Casing GS = Ground Surface	Well on — / — / —
Comments/Problems:	Waste Handling (Cuttings, Drilling Fluids, Development Water):

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
			0.0	0	0-1' Gray cinder, moist, loose			
1	7.8			2	1'-2' Dark gray to black cinder, moist, loose. Collected SB-7A at 2.0'			
			0.0	4	2'-4' tan to brown Sandy clay, moist, plastic.			
2	3.5			6	4-8' SAA			
				8	8.0'-12" tan to brown interbedded Sand & gravel moist, Sand fine grained			
3	7.5		0.0	10				
				12	12-16 SAA			
4	7.4		0.0	14				
				16	16-20 SAA			
5	2.4		0.0	18				

Contact Types: Abrupt ——— Gradational - - - - - - - -
Irregular or Angular ~~~~ Estimated .....

Boring/Well ID: SB-7
Project No: 122-509

Civil & Environmental Consultants, Inc.

Boring/Well ID: SB-7
Project No: 127-509

Sample No. Core Run	Run/Recovery Recovery	Blows Counts RQD	Organic Vapor Reading (ppm)	Depth (feet)	MATERIAL DESCRIPTION AND COMMENTS	Graphic Log	Elevation (feet, msl)	WELL DIAGRAM
			0.0		20-22.5' SAA			
6	1.7			22	23.5'-24' Tan to brown clayey silt			
					24.0'-28.0' SAA & gravel, poorly sorted,			
			0.0	24	moist, subrounded gravel			
7	2.3			26	Wet at 25'			
					Collected SB-7B at 25'			
			0.0	28	28-30' SAA			
8	1.3			30	BOB @ 30'			

Notes:

Boring/Well ID: SB-7
Project No: 127-509

ATTACHMENT B

GROUNDWATER SAMPLING LOGS

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Client: National Lime & Stone | CEC Project Number: 122-509

Date: 1/29/13 | Weather Observations: Sunny 60°F

WELL ID: 85

Water Volume Factors	
Diameter	Gallons/Foot
1 inches	0.04
1.5 inches	0.092
2 inches	0.17
3 inches	0.38
4 inches	0.66

Casing Diameter: 2" (inches) | Water Height in Well: 8.94 (feet)

Total Depth: 35.88 (feet) | Water Volume in Well: 1.52 (gallons)

Depth to Water: 26.94 (feet) | Purge Volume: 4.56 gal.(calculated) / 4.75 gal. (removed)

Depth to Top of Screen: — (feet) | Minimum Purge Volume (drawdown)(gal./ft.) + (well screen length)(gal./ft.) = —

Measured using:

Purged using: Dedicated Bailer/(Polypro Rope) | Grundfos pump/poly tubing | Other Disposable bailer

Sampled using: Dedicated Bailer/(Polypro Rope) | Grundfos pump/poly tubing | Other Disposable bailer

P: Administrative Documents\Sandy Forms\Field Form - Revised 9-04.xls

Field Measurements

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Purging (feet)	Time
15.9	3.97	850	—	0.0	26.94	1252
15.9	4.04	844	—	1.75	27.21	1300
15.7	4.16	842	—	3.25	27.35	1305
15.9	4.06	845	—	4.75	27.17	1311

Field Measurements at Time of Sampling

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Sampling (feet)	Time
15.9	4.32	824	4.46	4.75	26.93	1706

Instrument Calibration

Turbidity Meter Type: Hanna

1.0 NTU std = ____ | 5.42 NTU std = ____

~~10.0~~ 15.0 NTU std = 15.0 | ~~51.0~~ 100 NTU std = 103

~~499~~ 750 NTU std = 750

pH/Conductivity Meter Type: Oakton

4.01 std = 4.01

7.0 std = 6.97 | 1413 umhos/cm = 1412

10.1 std = 10.04

Physical Properties

Odor: none

Color: clear

Turbidity: low

Analysis Required: VOC 8260 / Dissolved 8 RCRA + Ca

Sample time/date: 1/29/13 1700

Comments: —

Deviations from SAP: none

Sampler: Dave Follett | Signature:

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Client: National Lime & Stone CEC Project Number: 122-509

Date: 1/29/13 Weather Observations: Sunny 60°F

WELL ID: 81

Water Volume Factors	
Diameter	Gallons/Foot
1 inches	0.04
1.5 inches	0.092
2 inches	0.17
3 inches	0.38
4 inches	0.66

Casing Diameter: 2" (inches) Water Height in Well: 20.46 (feet)

Total Depth: 53.00 (feet) Water Volume in Well: 3.49 (gallons)

Depth to Water: 32.54 (feet) Purge Volume: 10.47 gal.(calculated) / 10.50 gal. (removed)

Depth to Top of Screen: — (feet)

Mimimum Purge Volume (drawdown)(gal./ft.) + (well screen length)(gal./ft.) = _____

Measured using: _____

Purged using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

Sampled using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

P: Administrative Documents\Standy Forms\Field Form - Revised 9-04.xls

Field Measurements

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Purging (feet)	Time
15.7	6.10	939	—	0.0	32.54	1320
15.6	5.27	786	—	3.5	28.72	1339
15.5	4.88	774	—	7.0	40.23	1349
15.6	4.89	763	—	10.5	39.98	1406

Field Measurements at Time of Sampling

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Sampling (feet)	Time
15.7	4.86	761	8.28	10.5	32.75	1715

Instrument Calibration See BS

Turbidity Meter Type _____ 1.0 NTU std = _____ 5.42 NTU std = _____

10.0 NTD std = _____ 51.8 NTU std = _____

499 NTU std = _____

pH/Conductivity Meter Type _____ 4.01 std = _____

7.0 std = _____ 1413 umhos/cm = _____

10.1 std = _____

Physical Properties

Odor: None

Color: Clear

Turbidity: low

Analysis Required: VOC 8260 / Dissolved 8RCRA metal

Sample time/date: 1715 1/29/13

Comments: —

Deviations from SAP: none

Sampler: Dave Follett Signature: DF

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Client: National Lime & Stone CEC Project Number: 122-509

Date: 1/29/13 Weather Observations: Sunny 60°F

WELL ID: 17

Casing Diameter: 2" (inches) Water Height in Well: 8.47 (feet)

Total Depth: 30.10 (feet) Water Volume in Well: 1.44 (gallons)

Depth to Water: 21.53 (feet) Purge Volume: 4.32 gal.(calculated) / 4.50 gal. (removed)

Depth to Top of Screen: — (feet)

Minimum Purge Volume (drawdown)(gal./ft.) + (well screen length)(gal./ft.) = _____

Measured using: _____

Water Volume Factors	
Diameter	Gallons/Foot
1 inches	0.04
1.5 inches	0.092
2 inches	0.17
3 inches	0.38
4 inches	0.66

Purged using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

Sampled using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

P: Administrative Documents\Sandy Forms\Field Form - Revised 9-04.xls

Field Measurements

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Purging (feet)	Time
15.5	5.13	732	—	0.0	21.53	1417
15.3	5.51	740	—	1.5	21.89	1418
15.2	5.60	742	—	3.0	21.85	1422
15.2	5.59	742	—	4.5	21.86	1426

Field Measurements at Time of Sampling

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Sampling (feet)	Time
15.2	5.63	744	13.8	4.5	21.51	1725

Instrument Calibration See BS

Turbidity Meter Type _____ 1.0 NTU std = _____ 5.42 NTU std = _____

10.0 NTD std = _____ 51.8 NTU std = _____

499 NTU std = _____

pH/Conductivity Meter Type _____ 4.01 std = _____

7.0 std = _____ 1413 umhos/cm = _____

10.1 std = _____

Physical Properties

Odor: None

Color: Clear

Turbidity: low

Analysis Required: VOA 8260 / Dissolved 8 RCRA metals

Sample time/date: 1725 1/29/13

Comments: —

Deviations from SAP: none

Sampler: Dave Follett Signature: DF

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Client: National Lime & Stone CEC Project Number: 122-509

Date: 1/29/13 Weather Observations: Sunny 60°F

WELL ID: 19.

Water Volume Factors	
Diameter	Gallons/Foot
1 inches	0.04
1.5 inches	0.092
2 inches	0.17
3 inches	0.38
4 inches	0.66

Casing Diameter: _____ (inches) Water Height in Well: 15.48 (feet)

Total Depth: 41.31 (feet) Water Volume in Well: 2.64 (gallons)

Depth to Water: 25.83 (feet) Purge Volume: 7.92 gal.(calculated)

8.00 gal. (removed)

Depth to Top of Screen: ~ (feet)

Minimum Purge Volume (drawdown)(gal./ft.) + (well screen length)(gal./ft.) = _____

Measured using: _____

Purged using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

Sampled using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

P:\Administrative Documents\Handy Forms\Field Form - Revised 5-04.xls

Field Measurements

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Purging (feet)	Time
16.2	4.20	561	—	0.0	25.83	1550
15.6	4.08	582	—	2.75	25.98	1600
15.6	4.09	582	—	5.50	26.48	1606
15.6	4.09	583	—	8.00	26.48	1612

Field Measurements at Time of Sampling

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Sampling (feet)	Time
13.4	4.42	575	22.8	8.00	25.54	1735

Instrument Calibration See 45

Turbidity Meter Type _____

1.0 NTU std = _____ 5.42 NTU std = _____

10.0 NTD std = _____ ~~51.8~~ NTU std = _____

~~499~~ NTU std = _____

pH/Conductivity Meter Type _____

4.01 std = _____

7.0 std = _____ 1413 umhos/cm = _____

10.1 std = _____

Physical Properties

Odor: None

Color: Clear

Turbidity: Low

Analysis Required: VOC 8260/Dissolved 8RCRA Metals

Sample time/date: 1/29/13 1735

Comments: —

Deviations from SAP: None

Sampler: Dave Follett Signature: DF

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Client: National Line & Stone CEC Project Number: 122-509

Date: 1/29/13 Weather Observations: Sunny 60°F

WELL ID: 20

Casing Diameter: 2" (inches) Water Height in Well: 21.0' (feet)

Total Depth: 48.75 (feet) Water Volume in Well: 3.57 (gallons)

Depth to Water: 27.75 (feet) Purge Volume: 10.71 gal.(calculated)

10.75 gal. (removed)

Depth to Top of Screen: — (feet)

Minimum Purge Volume (drawdown)(gal./ft.) + (well screen length)(gal./ft.) = _____

Measured using: _____

Water Volume Factors	
Diameter	Gallons/Foot
1 inches	0.04
1.5 inches	0.092
2 inches	0.17
3 inches	0.38
4 inches	0.66

Purged using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

Sampled using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

P: Administrative Documents\Handy Forms\Field Form - Revised 9-04.xls

Field Measurements

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Purging (feet)	Time
15.2	5.95	734	—	0.0	27.75	1620
14.0	6.18	787	—	3.75	29.25	1628
14.0	6.21	789	—	7.25	29.76	1635
14.0	6.19	790	—	10.75	30.05	1643

Field Measurements at Time of Sampling

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Sampling (feet)	Time
14.5	6.19	779	40.1	10.75	27.75	1745

Instrument Calibration See 8S

Turbidity Meter Type _____ 1.0 NTU std = _____ 5.42 NTU std = _____

10.0 NTD std = _____ 51.8 NTU std = _____

499 NTU std = _____

pH/Conductivity Meter Type _____ 4.01 std = _____

7.0 std = _____ 1413 umhos/cm = _____

10.1 std = _____

Physical Properties

Odor: none

Color: clear

Turbidity: low

Analysis Required: VOC 8260/Dissolved ERCRA metals

Sample time/date: 1745 1/29/13

Comments: —

Deviations from SAP: none

Sampler: D. Follett Signature: DF

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Client: National Lime & Stone CEC Project Number: 122-509

Date: 1/31/13 Weather Observations: Snow 30°F

WELL ID: 13

Casing Diameter: 2" (inches) Water Height in Well: 10.36 (feet)

Total Depth: 46.70 (feet) Water Volume in Well: 1.77 (gallons)

Depth to Water: 36.34 (feet) Purge Volume: 5.31 gal.(calculated)

5.50 gal. (removed)

Depth to Top of Screen: — (feet)

Mimimum Purge Volume (drawdown)(gal./ft.) + (well screen length)(gal./ft.) = —

Measured using:

Water Volume Factors	
Diameter	Gallons/Foot
1 inches	0.04
1.5 inches	0.092
2 inches	0.17
3 inches	0.38
4 inches	0.66

Purged using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

Sampled using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

Field Measurements

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Purging (feet)	Time
13.8	7.66	1265	—	0.0	36.34	0820
14.3	6.97	1229	—	2.0	36.35	0835
14.5	6.79	1140	—	3.75	36.35	0842
14.5	6.76	1178	—	5.50	36.35	0850

Field Measurements at Time of Sampling

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Sampling (feet)	Time
12.4	7.05	1295	47.4	5.50	36.35	1040

Instrument Calibration See MW-21

Turbidity Meter Type _____ 1.0 NTU std = _____ 10.0 NTD std = _____ 5.42 NTU std = _____ 51.8 NTU std = _____ 499 NTU std = _____

pH/Conductivity Meter Type _____ 4.01 std = _____ 7.0 std = _____ 10.1 std = _____ 1413 umhos/cm = _____

Physical Properties

Odor: none

Color: clear

Turbidity: moderate

Analysis Required: VOC 8260 & RCRA with dissolved

Sample time/date: 1040 1/31/13

Comments: —

Deviations from SAP: none

Sampler: Dave Follett Signature:

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Client: National Lumber Site CEC Project Number: 122-509

Date: 1/31/13 Weather Observations: Snow 30°F

WELL ID: MW-21

Water Volume Factors	
Diameter	Gallons/Foot
1 inches	0.04
1.5 inches	0.092
2 inches	0.17
3 inches	0.38
4 inches	0.66

Casing Diameter: 2" (inches) Water Height in Well: 6.96' (feet)

Total Depth: 47.10 (feet) Water Volume in Well: 1.19 (gallons)

Depth to Water: 40.14 (feet) Purge Volume: 3.57 gal.(calculated)

3.75 gal. (removed)

Depth to Top of Screen: — (feet)

Mimimum Purge Volume (drawdown)(gal./ft.) + (well screen length)(gal./ft.) = _____

Measured using: _____

Purged using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

Sampled using: Dedicated Bailer/Polypro Rope Grundfos pump/poly tubing Other Disposable bailer

P: Administrative Documents\Handy Forms\Field Form - Revised 9-04.xls

Field Measurements

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Purging (feet)	Time
15.6	6.64	1586	—	0.0	40.14	752
15.7	6.63	1652	—	1.25	40.18	758
15.8	6.62	1657	—	2.50	40.16	806
15.9	6.62	1680	—	3.75	40.15	812

Field Measurements at Time of Sampling

Temperature (degrees C)	pH (s.u.)	Conductivity (umhos/cm)	Turbidity (NTU)	Volume (gallons)	Water Level During Sampling (feet)	Time
15.5	6.81	1785	170	7.75	39.91	1100

Instrument Calibration

Turbidity Meter Type Hanna

1.0 NTU std = _____ 5.42 NTU std = _____

10.0 NTD std = 15.0 ~~51.8~~ 108 NTU std = 107

15.0 ~~400~~ 750 NTU std = 750

pH/Conductivity Meter Type Oakton

4.01 std = 4.01

7.0 std = 7.0 1413 umhos/cm = 1410

10.1 std = 10.03

Physical Properties

Odor: none

Color: clear

Turbidity: moderate

Analysis Required: VOC 8260 BRCRA Dissolved metals / PAH 8270

Sample time/date: 1/31/13 1100

Comments: —

Deviations from SAP: none

Sampler: Dave Filcht Signature: _____

Oakton Cal
pH 4.01 = 4.01
7.0 = 6.97
10.01 = 10.02

Cond
1413 = 1412 uS

Hanna turb. 2tx ntu
15.0 = 15.0
100 = 103
750 = 750

WELL DEVELOPMENT FORM

Well # MW-21
Diameter (in): 2"
Initial Static DTW (ft): 40.75
Total Depth (ft): 49.10
Casing Volume (g): 1.08

Date: 7/30/13
Developed By: D. Fidler
Purge Method: Disposable Bailer / Grundfos / Monsoon
Total Gallons Removed: 5.0
Well Volumes Removed: 4.63

Time	Purged	pH	(°C)	(uS)	Turb.	DTW	Comments
[illegible]	0	6.50	15.6	1559	>1000	40.75	
1722	1.25	6.53	16.8	1561	>1000	40.91	
1730	2.50	6.51	16.4	1596	>1000	40.95	
1734	3.0	6.52	16.7	1601	>1000	40.91	
1740	5.0	6.53	16.8	1636	>1000	40.83	

ATTACHMENT C

LABORATORY ANALYTICAL REORTS

Pace Analytical®
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Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

February 11, 2013

Mr. Andy McCorkle
Civil & Environmental Consulta
8740 Orion Place
Columbus, OH 43240

RE: Project: 122-509
Pace Project No.: 5075632

Dear Mr. McCorkle:
Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 122-509
Pace Project No.: 5075632

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: 122-509
Pace Project No.: 5075632

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5075632001	**15**	Water	01/31/13 10:40	02/01/13 11:40
5075632002	**MW-21**	Water	01/31/13 11:00	02/01/13 11:40

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SAMPLE ANALYTE COUNT

Project: 122-509
Pace Project No.: 5075632

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5075632001	**15**	EPA 6010	FRW	7
		EPA 7470	LLB	1
		EPA 8260	GRM	67
5075632002	**MW-21**	EPA 6010	FRW	7
		EPA 7470	LLB	1
		EPA 8270 by SIM LVE	CEM	19
		EPA 8260	GRM	67

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ANALYTICAL RESULTS

Project: 122-509
Pace Project No.: 5075632

Sample: 15 **Lab ID: 5075632001** Collected: 01/31/13 10:40 Received: 02/01/13 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Lab Filtered	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	02/07/13 10:47	02/07/13 11:43	7440-38-2	
Barium, Dissolved	ND	ug/L	100	1	02/07/13 10:47	02/07/13 11:43	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	1	02/07/13 10:47	02/07/13 11:43	7440-43-9	
Chromium, Dissolved	ND	ug/L	10.0	1	02/07/13 10:47	02/07/13 11:43	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	02/07/13 10:47	02/07/13 11:43	7439-92-1	
Selenium, Dissolved	ND	ug/L	10.0	1	02/07/13 10:47	02/07/13 11:43	7782-49-2	
Silver, Dissolved	ND	ug/L	50.0	1	02/07/13 10:47	02/07/13 11:43	7440-22-4	
7470 Mercury, Lab Filtered	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	2.0	1	02/06/13 09:58	02/07/13 11:04	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/07/13 16:13	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/07/13 16:13	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/07/13 16:13	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/07/13 16:13	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/07/13 16:13	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/07/13 16:13	75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/07/13 16:13	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/07/13 16:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/07/13 16:13	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/07/13 16:13	95-63-6	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/07/13 16:13	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/07/13 16:13	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/07/13 16:13	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/07/13 16:13	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/07/13 16:13	541-73-1	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/07/13 16:13	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/07/13 16:13	106-46-7	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/07/13 16:13	594-20-7	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/07/13 16:13	78-93-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/07/13 16:13	95-49-8	
2-Hexanone	ND	ug/L	25.0	1		02/07/13 16:13	591-78-6	
4-Chlorotoluene	ND	ug/L	5.0	1		02/07/13 16:13	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/07/13 16:13	108-10-1	
Acetone	ND	ug/L	100	1		02/07/13 16:13	67-64-1	
Acrolein	ND	ug/L	50.0	1		02/07/13 16:13	107-02-8	
Benzene	ND	ug/L	5.0	1		02/07/13 16:13	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/07/13 16:13	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/07/13 16:13	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/07/13 16:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/07/13 16:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/07/13 16:13	74-83-9	
Carbon disulfide	ND	ug/L	10.0	1		02/07/13 16:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/07/13 16:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/07/13 16:13	108-90-7	

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ANALYTICAL RESULTS

Project: 122-509
Pace Project No.: 5075632

Sample: 15 **Lab ID: 5075632001** Collected: 01/31/13 10:40 Received: 02/01/13 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	5.0	1		02/07/13 16:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/07/13 16:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/07/13 16:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/07/13 16:13	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		02/07/13 16:13	74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/07/13 16:13	75-71-8	
Ethyl methacrylate	ND	ug/L	100	1		02/07/13 16:13	97-63-2	
Ethylbenzene	ND	ug/L	5.0	1		02/07/13 16:13	100-41-4	
Iodomethane	ND	ug/L	10.0	1		02/07/13 16:13	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/07/13 16:13	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/07/13 16:13	1634-04-4	
Methylene Chloride	ND	ug/L	5.0	1		02/07/13 16:13	75-09-2	
Styrene	ND	ug/L	5.0	1		02/07/13 16:13	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/07/13 16:13	127-18-4	
Toluene	ND	ug/L	5.0	1		02/07/13 16:13	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		02/07/13 16:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/07/13 16:13	75-69-4	
Vinyl acetate	ND	ug/L	50.0	1		02/07/13 16:13	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/07/13 16:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/07/13 16:13	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/07/13 16:13	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/07/13 16:13	10061-01-5	
n-Butylbenzene	ND	ug/L	5.0	1		02/07/13 16:13	104-51-8	
n-Propylbenzene	ND	ug/L	5.0	1		02/07/13 16:13	103-65-1	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/07/13 16:13	99-87-6	
sec-Butylbenzene	ND	ug/L	5.0	1		02/07/13 16:13	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/07/13 16:13	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/07/13 16:13	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/07/13 16:13	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/07/13 16:13	110-57-6	
Surrogates								
Dibromofluoromethane (S)	109	%.	83-123	1		02/07/13 16:13	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		02/07/13 16:13	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		02/07/13 16:13	2037-26-5	